



Product: [FD4L012RE](#)



Indoor/Outdoor Loose Tube OM4 12 Fibers OFNR Sub-Units(6F) Gel

Product Description

FX Indoor/Outdoor, Loose Tube, OM4, 12 Fibers, OFNR, Sub-Units(6F), Gel, Black Jacket

Technical Specifications

Product Overview

|                        |                                          |
|------------------------|------------------------------------------|
| Product Category:      | Fiber Multi-Loose Tube Cable             |
| Suitable Applications: | Campus Area Network, Long Haul, Backbone |

Fiber Specifications

|                      |           |
|----------------------|-----------|
| Fiber Type:          | OM4       |
| Fiber Core Diameter: | 50/125 µm |
| Fiber Diameter:      | 250 µm    |
| Fiber Count:         | 12        |
| Fiber Color Coding:  | TIA-598-D |

Cable Construction

|                               |                   |
|-------------------------------|-------------------|
| Number of Active Subunits:    | 2                 |
| Number of Fillers:            | 3                 |
| Fibers Per Subunit:           | 6                 |
| Subunit Waterblocking:        | Gel Filled        |
| Subunit Diameter:             | 0.098 in (2.5 mm) |
| Subunit Color:                | TIA-598-D         |
| Central Strength Member Type: | GRP               |

Outer Jacket Specifications

|                       |                          |
|-----------------------|--------------------------|
| Strength Member:      | Fiberglass Yarns         |
| Jacket Material:      | PVC - Polyvinyl Chloride |
| Nom. Diameter:        | 0.411 in (10.4 mm)       |
| Outer Jacket Color:   | Black                    |
| Outer Jacket Ripcord: | 1                        |

Optical Characteristics

| Wavelength                             | 850 nm       | 1300 nm    |
|----------------------------------------|--------------|------------|
| Max. Attenuation                       | 3.0 dB/km    | 1.0 dB/km  |
| 10 Gigabit Ethernet Performance        | 400 m        | --         |
| 40 Gigabit Ethernet Performance        | 150 m        | --         |
| 100 Gigabit Ethernet Performance       | 100 m        | --         |
| Min. Effective Modal Bandwidth (EMB)   | 4,700 MHz.km | --         |
| Min. Overfilled Launch (OFL) Bandwidth | 3,500 MHz.km | 500 MHz.km |

Mechanical Characteristics

|                                          |              |
|------------------------------------------|--------------|
| Minimum Bend Radius During Installation: | 15x Cable OD |
|------------------------------------------|--------------|

|                                            |                        |
|--------------------------------------------|------------------------|
| Minimum Bend Radius During Operation:      | 10x Cable OD           |
| Max. Tensile Strength During Installation: | 2670 N (600 lbf)       |
| Max. Tensile Strength During Operation:    | 800 N (180 lbf)        |
| Crush Resistance:                          | 220 N/cm               |
| Bulk Cable Weight:                         | 73 lbs/kft (109 kg/km) |

Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C to +60°C |
| Operating Temperature Range:    | -40°C to +70°C |
| Storage Temperature Range:      | -40°C to +70°C |

Standards and Compliance

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance         |
| Flammability / Reaction to Fire: | UL 1666, UL 1685                            |
| NEC / UL Compliance:             | OFNR                                        |
| CEC / C(UL) Compliance:          | FT4                                         |
| ICEA Compliance:                 | S-104-696                                   |
| TIA/EIA Compliance:              | 568.3, 598-D                                |
| European Directive Compliance:   | EU Directive 2015/863/EU (RoHS 2 amendment) |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.241 Revision Date: 12-12-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #    | Color | Putup Type |
|-----------|-------|------------|
| FD4L012RF | Black | Reel       |

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